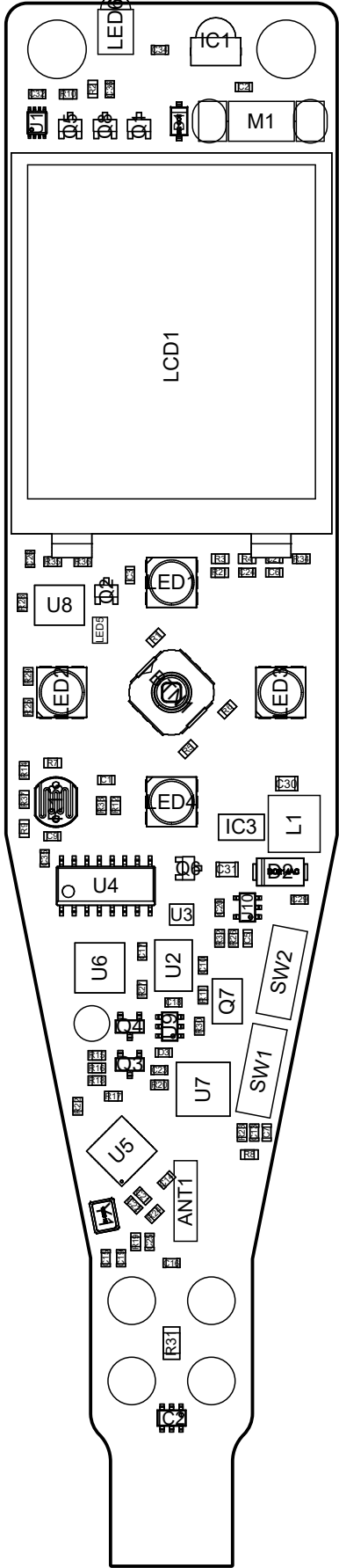


View from Top side (Scale 3:2)

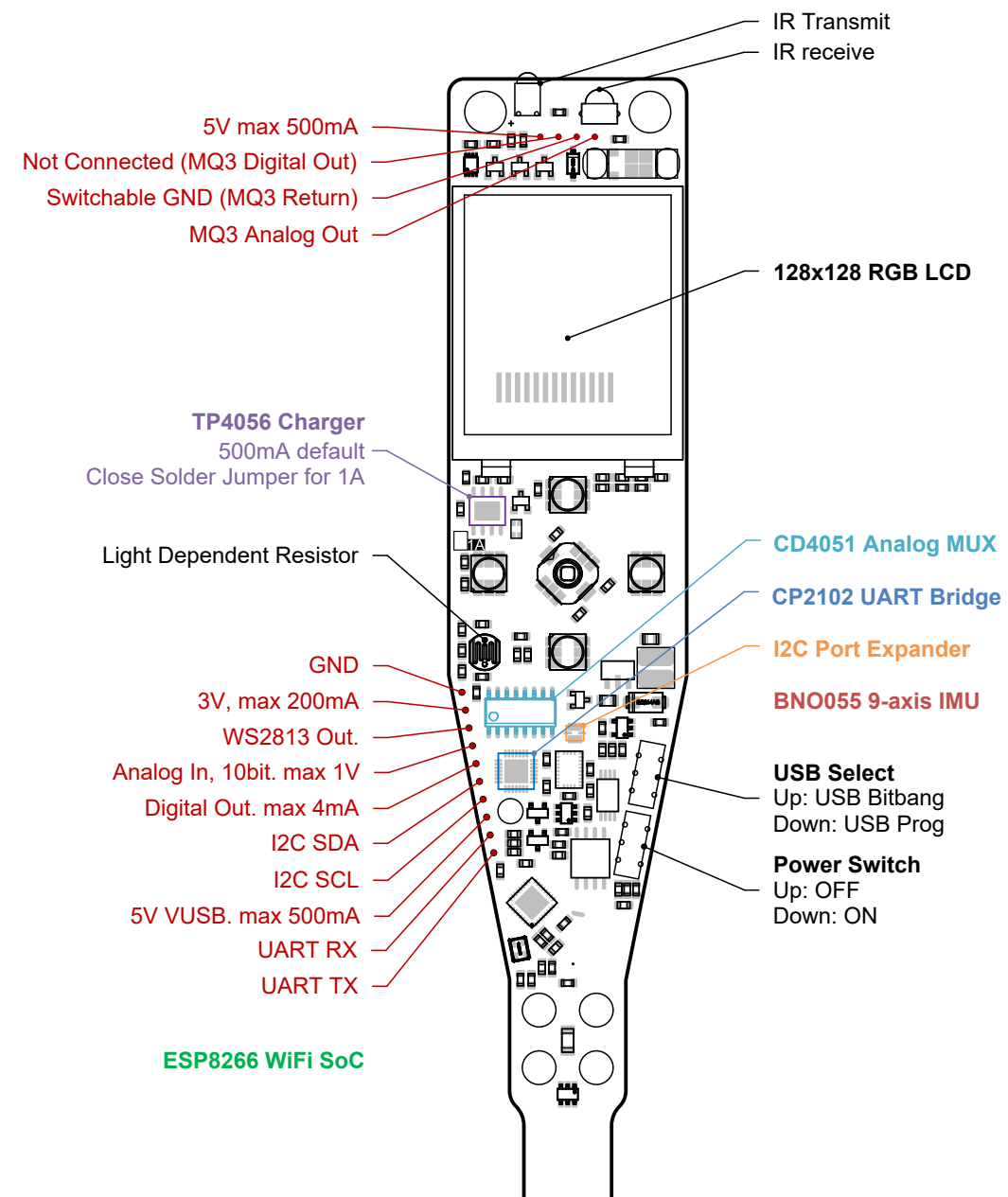


Bill Of Materials

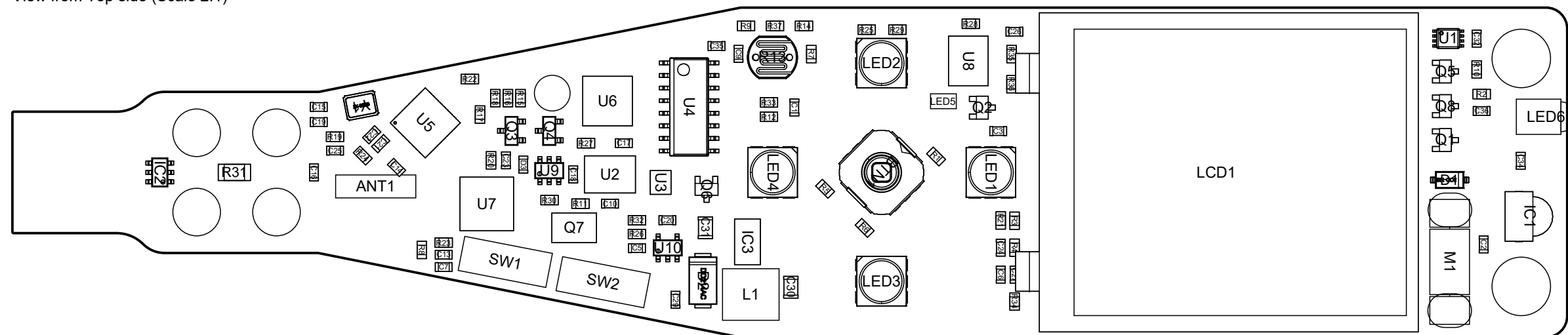
Item	Designator	Comment	Quantity
1	ANT1	ESP-ANTENNA	1
2	B1	18650-Holder	1
3	BTN1	joystick	1
4	C14, C15, C19	5.6p 50V	3
5	C21, C26, C27	10u 6.3V	3
6	C1-C3, C5, C6, C9, C10, C13, C17, C18, C22, C24, C32, C34, C35	100n 25V	15
7	C7, C25	220p 50V	2
8	C30, C31	47u 6.3V	2
9	C16, C20, C23, C29, C36	1u 10V	5
10	D1	BAT54T1G	1
11	D2	B230A-13-F	1
12	D3	RB520S30T1G	1
13	IC1	TL1838	1
14	IC2	USBLC6-2SC6	1
15	IC3	BL8530	1
16	L1	L	1
17	LCD1	LCD	1
18	LED1-LED4	WS2813	4
19	LED5	DUO_LED	1
20	LED6	IR_LED	1
21	M1	VIBRATOR	1
22	P1	Header 4H	1
23	Q3, Q4	NPN_MMBT3904	2
24	Q7	CEG8205	1
25	Q1, Q2, Q5, Q6, Q8	AO3400	5
26	R3, R10, R11, R15, R16, R19, R21-R25	12k	11
27	R13	LDR	1
28	R12, R14	330k	2
29	R26, R32	4k7	2
30	R2, R27	100	2
31	R20, R28-R30	1.2k	4
32	R31	0.27	1
33	R33, R37	1M	2
34	R34	0	1
35	R17, R18, R35, R36	470	4
36	R4	33	1
37	R7	200k	1
38	R1, R5, R6, R8, R9	100k	5
39	SW1, SW2	SWITCH_2P2T	2
40	U1	74LVC2G125	1
41	U10	MIC5501-3.3V	1
42	U2	BNO-055 I2C	1
43	U3	PCA9571	1
44	U4	CD4051BM	1
45	U5	ESP8266EX	1
46	U6	CP2102-GM	1
47	U7	W25Q64	1
48	U8	TP4056	1
49	U9	DW01A	1
50	Y1	26MHz	1

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE		
		DIMENSIONS ARE IN INCHES	DRAWN	4/30/2017			
		TOLERANCES:	CHECKED				
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±			SIZE DWG. NO.		
		THREE PLACE DECIMAL ±					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		SCALE: 1:1 WEIGHT: SHEET 1 OF 3		
		MATERIAL	COMMENTS:				
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING					



View from Top side (Scale 2:1)



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		UNLESS OTHERWISE SPECIFIED:	DESIGNED:	NAME	DATE				
		DIMENSIONS ARE IN INCHES	DRAWN		4/30/2017				
		TOLERANCES:	CHECKED			TITLE			
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ± BEND ±							
		TWO PLACE DECIMAL ±	MFG APPR.						
		THREE PLACE DECIMAL ±							
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. <div></div>			
		MATERIAL	COMMENTS:						
	NEXT ASSY	USED ON	FINISH						
	APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:1		WEIGHT:	SHEET 3 OF 3